

GenCode version 5.1.6  
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M protein - protein search, using sw model

November 17, 2003, 16:04:42, Search time 5.89474 Seconds  
(447 alignments)  
143,355 Million SMI updates/sec

US-09-910-009a-211

Effect score: 12

Sequence: 1 KNC0GGSXKCRHARCC 20

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

- 1: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*
- 2: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*
- 3: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*
- 4: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*
- 5: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*
- 6: /cgn2\_6/pdata1/1/isa/SA.COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result	Score	Query	Length	DB	ID	Description
1	58	47.9	1417	4	US-08-900-230-3	Sequence 3, Appl
2	57	47.1	2211	4	US-08-738-884-1	Sequence 1, Appl
3	54	44.6	58	4	US-08-738-884-1	Sequence 23, Appl
4	54	44.6	58	4	US-08-738-884-1	Sequence 23, Appl
5	54	44.6	232	4	US-09-252-991A-23648	Sequence 23648, A
6	53	43.8	40	4	US-09-003-198A-14	Sequence 14, Appl
7	52.5	43.8	1452	4	US-09-003-198A-14	Sequence 16, Appl
8	52.5	43.8	1452	4	US-09-003-198A-14	Sequence 16, Appl
9	52.5	43.4	1400	4	US-08-630-915A-37	Sequence 37, Appl
10	50	41.3	2088	4	US-09-548-372D-13	Sequence 13, Appl
11	50	41.3	2088	4	US-09-548-372D-13	Sequence 13, Appl
12	49.5	40.9	288	4	US-09-531-853D-13	Sequence 13, Appl
13	49.5	40.9	288	4	US-09-531-853D-13	Sequence 13, Appl
14	49.5	40.9	112	4	US-09-252-991A-25976	Sequence 25976, A
15	48.5	40.1	22	1	US-08-599-556-1	Sequence 1, Appl
16	48.5	40.1	22	1	US-08-599-556-1	Sequence 1, Appl
17	48.5	40.1	22	1	US-08-599-556-1	Sequence 1, Appl
18	48.5	40.1	27	5	US-08-599-556-1	Sequence 12, Appl
19	48.5	40.1	359	3	US-08-584-165-4	Sequence 4, Appl
20	48	39.7	170	2	US-08-460-559B-9	Sequence 9, Appl
21	47.9	39.7	197	4	US-08-460-559B-9	Sequence 9, Appl
22	47.5	38.8	197	4	US-09-252-991A-20359	Sequence 20359, A
23	47	38.8	45	4	US-08-900-230-46	Sequence 46, Appl
24	47	38.8	45	4	US-08-900-230-53	Sequence 53, Appl
25	47	38.8	46	4	US-08-900-230-40	Sequence 40, Appl
26	47	38.8	46	4	US-08-900-230-40	Sequence 40, Appl
27	47	38.8	46	4	US-08-900-230-40	Sequence 40, Appl
28	47	38.8	280	4	US-09-252-991A-20783	Sequence 20783, A

Sequence 30359, A  
Sequence 4, Appl  
Sequence 2, Appl  
Sequence 18, Appl  
Sequence 27807, A  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 17, Appl  
Sequence 32256, A  
Sequence 32256, A  
Sequence 6, Appl  
Sequence 4, Appl  
Sequence 3, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 22, Appl

## ALIGNMENTS

RESULT 1  
US-08-900-230-3  
; Sequence 3, Application US/08900230  
; Patent No. 632197  
; GENE: 1000000000  
; APPLICANT: Baird, Jonathan A.  
; TITLE OF INVENTION: DNA ENCODING GALNRI GALR3 RECEPTORS AND  
; TITLE OF INVENTION: USES THEREOF  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDING ADDRESS:  
; ADDRESS: Cooper & Dunham LLP  
; STREET: 1185 Avenue of The Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 11036

COMPUTER READABLE FORM: disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
COMMENTS: DNA ENCODING GALNRI GALR3 RECEPTORS AND  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JEW/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-391-0500  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1417 amino acids  
STRAND: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
AMINO ACIDS: NO  
ANTISENSE: NO

US-08-900-230-3

Query Match 47.9% Score 58; DB 4; Length 1417;  
Sequence Similarity 5.91%  
Matches 9; Conservative 0; Mismatches 9; Indels 0;

QY 3 CNGGCSXKCRHARCC 20

DB 540 CUGGCSXKCRHARCC 557

RESULT 2

US-09-738-884-1

Sequence 23, Application US/09738884

Patent No. 631606

GENERAL INFORMATION:

APPLICANT: GUEGLER, Karl et al

TITLE OF INVENTION: ISOLATED HUMAN PHOSPHOLIPASE

TITLE OF INVENTION: ISOLATED HUMAN PHOSPHOLIPASE

FILE REFERENCE: C1000849

CURRENT APPLICATION NUMBER: US/09/738,884

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 2211

TYPE: PRT

ORGANISM: Human

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Best Local Similarity 50.0%; Pred. No. 67;

Matches 8; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

3 CNGCGSSKCRDHARCC 20

47 CCGCGCTCCGAGATCC 64

US-09-738-884-1

Query Match 47.1%; Score 57; DB 4; Length 2211;

Matches 8; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

4 CNGCGSSKCRDHARCC 20

38 CTGCGTACTCTGTGAACC 54

US-08-828-323-23

Sequence 23, Application US/08828323A

Patent No. 644752

GENERAL INFORMATION:

APPLICANT: O'Donnell, Michael

TITLE OF INVENTION: DNA POLYMERASE III HOLOENZYME

TITLE OF INVENTION: DNA POLYMERASE III HOLOENZYME

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/08/828,323A

NUMBER OF SEQ ID NOS: 60

SOFTWARE: FastSeq for Windows Ver. 2.0

SEQ ID NO 23

LENGTH: 58

TYPE: PRT

ORGANISM: Escherichia coli

US-08-828-323-23

Query Match 44.6%; Score 54; DB 4; Length 58;

Best Local Similarity 47.1%; Pred. No. 6.9;

Matches 8; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

4 CNGCGSSKCRDHARCC 20

38 CTGCGTACTCTGTGAACC 54

US-09-252-991A-23648

Sequence 23, Application US/09252991A

Patent No. 655179

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

NUMBER OF SEQ ID NOS: 28

SOFTWARE: Microsoft Word 4.0

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-07-27

PRIOR FILING DATE: 1998-07-27

SEQ ID NO 23648

LENGTH: 232

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23648

Query Match 44.6%; Score 54; DB 4; Length 232;

Best Local Similarity 47.1%; Pred. No. 22;

Matches 9; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

4 CNGCGSSKCRDHARCC 20

63 CTGCGSSKCRGRC 79

US-09-003-198A-14

Sequence 14, Application US/09003198A

Patent No. 6316407

GENERAL INFORMATION:

APPLICANT: Liang, Jihong

APPLICANT: Liang, Jihong

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/003,198A

NUMBER OF SEQ ID NOS: 23

SOFTWARE: Microsoft Word 4.0

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-02-18

PRIOR FILING DATE: 1998-07-27

PRIOR FILING DATE: 1998-07-27

SEQ ID NO 23648

LENGTH: 232

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23648

APPLICANT: Rosenberger, Cindy A.  
 APPLICANT: Hakimi, Salim  
 TITLE OF INVENTION: Antifungal Polypeptide and Methods for  
 Controlling Plant Pathogenic Fungi  
 REFERENCE/DOCKET NUMBER: MOBT:193  
 TELEPHONE: (713) 787-1400  
 CORRESPONDENCE ADDRESS:  
 ADDRESSES: Arnold White & Durkee  
 STREET: P.O. Box 4433  
 CITY: Houston  
 STATE: Texas  
 COUNTRY: USA  
 ZIP: 77210  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA: US/09/003,198A  
 FILING DATE: 07-JAN-1998  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Patterson, Melinda L.  
 REGISTRATION NUMBER: 33,062  
 REFERENCE/DOCKET NUMBER: MOBT:193  
 TELEPHONE: (713) 787-1400  
 INFORMATION FOR SEQ ID NO: 1:  
 LENGTH: 40 amino acids  
 SEQUENCE CHARACTERISTICS:  
 TYPE: amino acid  
 STRANDEDNESS: linear  
 TOPOLOGY: linear  
 09-003-198A-14  
 Query Match 43.8%; Score 53; DB 4; Length 40;  
 Best Local Similarity 40.7%; Pred No. 6.5;  
 Matches 11; Conservative 0; Mismatches 6; Indels 10; Gaps 1;  
 4 CNGCOPFKYKXNLLSGRCDFFCC 40  
 14 CNGCOPFKYKXNLLSGRCDFFCC 40

CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Patterson, Melinda L.  
 REGISTRATION NUMBER: 33,062  
 REFERENCE/DOCKET NUMBER: MOBT:193  
 TELEPHONE: (713) 787-1400  
 TELEFAX: (713) 787-1400  
 INFORMATION FOR SEQ ID NO: 1:  
 LENGTH: 67 amino acids  
 SEQUENCE CHARACTERISTICS:  
 TYPE: amino acid  
 STRANDEDNESS: linear  
 TOPOLOGY: linear  
 US-09-003-198A-16  
 Query Match 43.8%; Score 53; DB 4; Length 67;  
 Best Local Similarity 40.7%; Pred No. 10;  
 Matches 11; Conservative 0; Mismatches 6; Indels 10; Gaps 1;  
 4 CNGCOPFKYKXNLLSGRCDFFCC 67  
 41 CNGCOPFKYKXNLLSGRCDFFCC 67  
 RESULT 8  
 US-08-977-767-3  
 Patent No. 6316407;  
 Application US/08977767  
 GENERAL INFORMATION:  
 APPLICANT: Bandman, Olga  
 APPLICANT: Rosenberger, Cindy A.  
 APPLICANT: Hakimi, Salim  
 APPLICANT: Gresham, Neil C.  
 APPLICANT: Corley, Neil C.  
 TITLE OF INVENTION: CARBONIC ANHYDRASE VIII  
 INFORMATION FOR SEQ ID NO: 3:  
 LENGTH: 40 amino acids  
 SEQUENCE CHARACTERISTICS:  
 TYPE: amino acid  
 STRANDEDNESS: linear  
 TOPOLOGY: linear  
 09-003-198A-14  
 Query Match 43.8%; Score 53; DB 4; Length 40;  
 Best Local Similarity 40.7%; Pred No. 6.5;  
 Matches 11; Conservative 0; Mismatches 6; Indels 10; Gaps 1;  
 4 CNGCOPFKYKXNLLSGRCDFFCC 40  
 14 CNGCOPFKYKXNLLSGRCDFFCC 40

US-08-977-767-3



FILE REFERENCE: 29915/G280L  
CURRENT APPLICATION NUMBER: US/09/551,853D  
CURRENT FILING DATE: 2000-04-18  
BEST LOCAL SIMILARITY: 50.0%; DB 2; Length 54;  
PRIOR FILING DATE: 1998-09-23  
PRIOR APPLICATION NUMBER: US 60/135,493  
PRIOR FILING DATE: 1998-09-23  
PRIOR APPLICATION NUMBER: US 09/404,133  
PRIOR FILING DATE: 1998-09-23  
PRIOR APPLICATION NUMBER: PCT/US99/20881  
PRIOR FILING DATE: 1998-09-23  
PRIOR APPLICATION NUMBER: US 60/101,594  
PRIOR FILING DATE: 1998-09-24  
NUMBER OF SEQ ID NOS: 73  
CYTOTOXIC Peptidein version 3.1  
SEQ ID NO: 1617  
LENGTH: 2088  
TYPE: PPT  
ORGANISM: Homo sapiens

Query Match 41.3%; Score 50; DB 4; Length 2088;  
Best Local Similarity 44.4%; Pred.No. 3.8e+02;  
Matches 8; Conservative 10; Mismatches 10; Indels 0; Gaps 0;

QY 3 CNGGGSKKKCRDHARC 20  
|||  
Db 1617 CTGGAGACATCTCCGCC 1634

RESULT 13  
Sequence 42, Application US/08691814B  
Title of Invention: CYTOTOXIC PEPTIDES  
GENERAL INFORMATION:  
APPLICANT: Rio, Marie-Christine  
APPLICANT: Tomasetto, Catherine  
APPLICANT: Bassett, Paul  
ATTORNEY/AGENT INFORMATION: Blythe, Jennifer  
TITLE OF INVENTION: as Leukemia Acid Molecules Useful  
in Breast Cancer Prognosis  
NUMBER OF SEQUENCES: 124  
CORRESPONDENCE ADDRESS:  
STREET: 1100 New York Ave., NW, Suite 600  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP CODE: 20005-1914  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/691,814B  
FILING DATE: 31-JUL-1996  
PRIORITY CLAIMING DATE: 09-AUG-1995  
PRIOR APPLICATION NUMBER: US 60/002,183  
FILING DATE: 09-AUG-1995  
ATTORNEY/AGENT INFORMATION:  
REGISTRATION NUMBER: K 36,688  
REFERENCE/DOCKET NUMBER: 1183.0090001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
FAX: 202-371-2603  
INFORMATION FOR SEQ ID NO: 42:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 54 amino acids  
TYPE: amino acid  
RELEVANCE: relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: peptide

US-08-691-814B-42

Query Match 40.9%; Score 49.5; DB 2; Length 54;  
Best Local Similarity 50.0%; Pred. No. 20;  
Matches 9; Conservative 1; Mismatches 7; Indels 1; Gaps 1;

QY 3 CNGGGSKKKCRDHARC 20  
|||  
Db 25 CHGGCSISPSIA-HGRUC 41

RESULT 14  
US-09-252-991A-29976  
Sequence 2976, Application US/09252991A  
Title of Invention: NUCLEIC ACID AND AMINO ACID SOURCES RELATING TO PSEUDOMONAS  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SOURCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 071913  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-07-27  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 29976  
TYPE: PPT  
ORGANISM: Pseudomonas aeruginosa

Query Match 40.9%; Score 49.5; DB 4; Length 112;  
Best Local Similarity 47.4%; Pred. No. 37;  
Matches 9; Conservative 2; Mismatches 3; Indels 5; Gaps 2;

QY 2 NCNGGSGSKKCRDHARC 20  
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Db 94 NCC--CAARTCR-VRCR 107

RESULT 15  
US-08-599-556-1  
Sequence 1, Application US/08599556  
Patent No. 5670622  
GENERAL INFORMATION:  
APPLICANT: Ki-Joon  
APPLICANT: Yoshikami, Doju  
APPLICANT: Marsh, Maren  
APPLICANT: Cruz, Lourdes J.  
APPLICANT: Hildreth, David R.  
APPLICANT: Oliver, Balomero M.  
TITLE OF INVENTION: Conotoxin Peptide PIITA  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
STREET: 1201 New York Avenue, Suite 1000  
CITY: Washington  
STATE: DC  
COUNTRY: U.S.A.  
ZIP CODE: 20004-4201  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/599,556  
FILING DATE: 08-OCT-1999  
ATTORNEY/AGENT INFORMATION:  
NAME: Save, Stephen A.

REGISTRATION NUMBER: 38,609  
 REGISTRY/COCKET NUMBER: 260-107674-03  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-962-4848  
 TELEFAX: 202-962-8300  
 INFO: 202-962-8300  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 22 amino acids  
 TYPE: amino acid  
 COMPLETENESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: Peptide  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: *Conus purpurascens*  
 FEATURES:  
 NAME/KEY: Modified-site  
 LOCATION: 1  
 OTHER INFORMATION: /product= "OTHER"  
 OTHER INFORMATION: /note= "Amino acid 1 is pyroglutamate or glutamine."  
 FEATURE:  
 NAME/KEY: Modified-site  
 LOCATION: 1  
 OTHER INFORMATION: /product= "OTHER"  
 OTHER INFORMATION: /note= "Amino acid 1 is 4-transhydroxyproline or proline."  
 FEATURE:  
 NAME/KEY: Disulfide-bond  
 LOCATION: 4..16  
 FEATURE:  
 NAME/KEY: Disulfide-bond  
 LOCATION: 5..21  
 FEATURE:  
 NAME/KEY: Disulfide-bond  
 LOCATION: 11..22  
 FEATURE:  
 NAME/KEY: Modified-site  
 LOCATION: 18  
 OTHER INFORMATION: /product= "OTHER"  
 OTHER INFORMATION: /note= "Amino acid 18 is 4-transhydroxyproline or proline."  
 FEATURE:  
 NAME/KEY: Modified-site  
 LOCATION: 22  
 OTHER INFORMATION: /product= "OTHER"  
 OTHER INFORMATION: /note= "The carboxy terminus may be amidated."  
 08-599-556-1  
 very Match 40.1%; Score 48.5; DB 1; Length 22;  
 est Local Similarity 45.0%; Pred.No.12;  
 attaches 9; Conservative 2; Mismatches 6; Indels . 3; Gaps 2;  
 3 CCN--GGCSXXCRHARCC 20  
 || | | | |  
 4 CCGFXHSCRQCKKH-RCC 22

rch completed: November 17, 2003, 16:19:24  
 time : 5.89474 secs



LOCATION: (1) - (20)

OTHER INFORMATION: Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Trp or  
OTHER INFORMATION: bromo-Trp

09-910-009A-211

```

Query Match      97.5%; Score 118; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 7.4e-08;
Matches 19; Conservative 0; Mismatches 0; Indels
2 NCCNCGGSSKXCRPHARC 20
+++++
2 NCCNCGGSSKXCRPHARC 20
+++++
2 NCCNCGGSSKXCRPHARC 20
+++++
2 NCCNCGGSSKXCRPHARC 20
+++++

```

## RESULT 2

09-910-009A-432  
sequence 432, Application US/09310009A  
publication No. US20030050234A1  
GENERAL INFORMATION:  
APPLICANT: University of Utah Research Foundation

**APPLICANT:** Cognetix, Inc.

APPLICANT: McIntosh, Baldomero M.  
 APPLICANT: McIVER, J. Michael  
 APPLICANT: GARZETT, James E.  
 APPLICANT: HAKKINS, NAREN  
 APPLICANT: SHON, Lourdes J.  
 APPLICANT: SHON, Ki-Joon  
 APPLICANT: Jacobsen, Richard  
 APPLICANT: Jones, Robert M.  
 APPLICANT: SHERIFF, G. Edward  
 APPLICANT: NAGELIFF, John D.  
 APPLICANT: NAGELIFF, John D.  
 TITLE OF INVENTION: Mu-Concepts  
 FILE REFERENCE: 2314-242

Query Match 96.7%; Score 117; DB 11; Length 75;  
Best Local Similarity 94.7%; Pred. No. 2.9e-07;  
Matches 18: Conservative 0; Mismatches 1; Indels

2 NCCNGGCSKXCRDHACC 20  
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55 NCCNGGCSKXCRDHACC 73

#### RESULT 4

US-09-03-10-009A-301

Sequence 301, Application US/09910009A

GENERAL INFORMATION:

PUBLICATION NO. US200301005023AA1

APPLICANT: UNIVERSITY of Utah Research Foundation

APPLICANT: Oltivera, Inc

APPLICANT: Oltivera, Baldomero M.

APPLICANT: McInrooh, J. Michael

APPLICANT: Garrett, James E.

APPLICANT: Shon, Lourdes J.

APPLICANT: Chou, Kl-Joon

APPLICANT: Jacobson, Richard

APPLICANT: Jones, Robert M.

APPLICANT: Knecht, Edward

APPLICANT: Sham, Greg S.

APPLICANT: Wagschal, John D.

TITLE OF INVENTION: M1-ConceptPides

FILE REFERENCE: 2314-242

CURRENT FILING DATE: US/09/910, 009A

PRIOR FILING DATE: 2001-07-23

PRIOR APPLICATION NUMBER: US 60/219, 619

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/245, 157

PRIOR FILING DATE: 2000-07-21

PRIOR APPLICATION NUMBER: US 60/264, 319

PRIOR FILING DATE: 2001-01-29

PRIOR APPLICATION NUMBER: US 60/277, 270

PRIOR FILING DATE: 2001-03-21

DESCRIPTION OF INVENTION: SEQ ID NO: 1-40

SOFTWARE: Patent version 3.0

SEQ ID NO 301

LENGTH: 22

TYPE: PRT

CLASS: C01K

CLASS: C01K

NAME/KEY: PEPTIDE

### III.7.3

09-910-009A-210  
sequence 210, Application US/0991009A  
publication No. US20030050234A1  
GENERAL INFORMATION:  
APPLICANT: University of Utah Research Foundation

APPLICANT: Cognetix, Inc.

APPLICANT: Olivera, Baldomero M.  
APPLICANT: McIntosh, J. Michael  
APPLICANT: Garrett, James E.  
APPLICANT: Watkins, Maren  
APPLICANT: Cruz, Lourdes J.



```

LOCATION: (1), (22)
OTHER INFORMATION: Xaa at residue 1 is Gln or pyro-Glu, Xaa at residue 14 is Trp or
8-09-910-009a-301
Sequence 473, Application US/09910009A
Best Local Similarity 78.54; Score 95; DB 11; Length 22;
Pred. No. 4.4e-05;
Matches 16; Conservative 2; Mismatches 0; Indels 2; Gaps 1;
y 3 CONG--GSSSKXCRDHARCC 20
b 3 CONGRGCSXCRWCHHSRCC 22

RESULT 5
8-09-910-009a-473
Sequence 473, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: Cognetix, Inc.
APPLICANT: Baldomero M.
APPLICANT: Oliviera, Baldomero M.
APPLICANT: Cognetix, Inc.
APPLICANT: Oliviera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Jacobsen, Richard
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: Mu-Conopeptides
CURRENT APPLICATION NUMBER: US/09/910,009A
PRIORITY FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
SOFTWARE: Patent in version 3.0
SEQ ID NO 473
LENGTH: 22
ORGANISM: Conus stercusumcarum
Query Match
Best Local Similarity 77.04; Score 94; DB 11; Length 22;
Matches 15; Conservative 2; Mismatches 1; Indels 2; Gaps 1;
y 3 CONG--GSSSKXCRDHARCC 20
b 3 CONGRGCSXCRWCHHSRCC 22

RESULT 6
8-09-910-009a-473
Sequence 473, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: Cognetix, Inc.
APPLICANT: Baldomero M.
APPLICANT: Oliviera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Jacobsen, Richard
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: Mu-Conopeptides
CURRENT APPLICATION NUMBER: US/09/910,009A
PRIORITY FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
SOFTWARE: Patent in version 3.0
SEQ ID NO 473
LENGTH: 22
ORGANISM: Conus stercusumcarum
Query Match
Best Local Similarity 77.04; Score 94; DB 11; Length 22;
Matches 15; Conservative 2; Mismatches 1; Indels 2; Gaps 1;
y 3 CONG--GSSSKXCRDHARCC 20
b 3 CONGRGCSXCRWCHHSRCC 22

RESULT 7
8-09-910-009a-376
Sequence 376, Application US/09910009A
Publication No. US20030050234A1
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Oliviera, Baldomero M.
APPLICANT: McIntosh, J. Michael
APPLICANT: Garrett, James E.
APPLICANT: Watkins, Maren
APPLICANT: Cruz, Lourdes J.
APPLICANT: Shen, Ki-Joon
APPLICANT: Jacobsen, Richard
APPLICANT: Cartier, G. Edward
APPLICANT: Shen, Greg S.
APPLICANT: Magstaff, John D.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: Mu-Conopeptides
CURRENT APPLICATION NUMBER: US/09/910,009A
PRIORITY FILING DATE: 2001-07-23
PRIOR APPLICATION NUMBER: US 60/219,619
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/245,157
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/264,319
PRIOR FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: US 60/277,270
PRIOR FILING DATE: 2001-03-21
SOFTWARE: Patent in version 3.0
SEQ ID NO 376
LENGTH: 22
TYPE: PRT
ORGANISM: Conus consors
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
NAME/KEY: PEPTIDE

```

Query Match  
Best Local Similarity 77.74; Score 94; DB 11; Length 76;  
Matches 15; Conservative 2; Mismatches 1; Indels 2; Gaps 1;

QY 3 CONG--GSSSKXCRDHARCC 20  
DB 54 CONGRGCSXCRWCHHSRCC 73

RESULT 7  
US-09-910-009a-376  
Sequence 376, Application US/09910009A  
Publication No. US20030050234A1  
GENERAL INFORMATION:  
APPLICANT: University of Utah Research Foundation  
APPLICANT: Cognetix, Inc.  
APPLICANT: Oliviera, Baldomero M.  
APPLICANT: McIntosh, J. Michael  
APPLICANT: Garrett, James E.  
APPLICANT: Watkins, Maren  
APPLICANT: Cruz, Lourdes J.  
APPLICANT: Shen, Ki-Joon  
APPLICANT: Jacobsen, Richard  
APPLICANT: Cartier, G. Edward  
APPLICANT: Shen, Greg S.  
APPLICANT: Magstaff, John D.  
APPLICANT: Shen, Greg S.  
TITLE OF INVENTION: Mu-Conopeptides  
CURRENT APPLICATION NUMBER: US/09/910,009A  
PRIORITY FILING DATE: 2001-07-23  
PRIOR APPLICATION NUMBER: US 60/219,619  
PRIOR FILING DATE: 2000-07-21  
PRIOR APPLICATION NUMBER: US 60/245,157  
PRIOR FILING DATE: 2000-11-03  
PRIOR APPLICATION NUMBER: US 60/264,319  
PRIOR FILING DATE: 2001-01-29  
PRIOR APPLICATION NUMBER: US 60/277,270  
PRIOR FILING DATE: 2001-03-21  
SOFTWARE: Patent in version 3.0  
SEQ ID NO 376  
LENGTH: 22  
TYPE: PRT  
ORGANISM: Conus consors  
APPLICANT: University of Utah Research Foundation  
APPLICANT: Cognetix, Inc.  
NAME/KEY: PEPTIDE



Journal of Interpersonal Violence 28(1)

; LENGTH: 80

; LENGTH: 80





Sequence No. Application US/08700442A  
Patent No. 5961480  
GENERAL INFORMATION  
APPLICANT: SIELLA ATTENEGOROUGH  
APPLICANT: Willem Frans BROEKART  
APPLICANT: Rupert William OSBORN  
APPLICANT: Sarah Bronwen REES  
APPLICANT: Ravindra Haribhai TAILOR  
INVENTOR: SIELLA ATTENEGOROUGH  
INVENTOR: WILLEM FRANS BROEKART  
INVENTOR: RUPERT WILLIAM OSBORN  
INVENTOR: SARAH BRONWEN REES  
INVENTOR: RAVINDRA HARIBHAI TAILOR  
TITLE OF INVENTION: ANTIBODIES TO BACTERIAL PROTEINS FROM ABALIA AND  
TITLE OF INVENTION: INWATENS

ADDRESSEE: Pillsbury Madison & Sutro. L.L.P.  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: Washington  
COUNTRY: USA  
ZIP: 20005-3918  
COMMUNICATIONS: MAIL ROOM  
MEDIUM TYPE: FLOPPY disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
APPLICATION: Statistical record  
CURRENT APPLICATION DATA  
APPLICATION NUMBER: US/08/700,442A  
FILING DATE: 19-AUG-1996  
PRIORITY: 08/0700442A  
PRIORITY APPLICATION DATA:

FILING DATE: 09-MAR-1995  
 PRIOR APPLICATION DATA:  
 PUBLICATION NUMBER: 54404807.1  
 FILING DATE: 11-MAR-1993  
 INFORMATION FOR SEQ ID NO: 9:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 100 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 FUNCTION: linear  
 MOL. WEIGHT: 10000 protein  
 ORIGINAL SOURCE:  
 ORGANISM: FIGURE 10

```

Query Match      17.4% Score 73, DN 2; Length 133;
Best Local Similarity 28.0%; Pred. No. 1.5;
Matches 23; Conservative 13; Mismatches 26; Indels 20; Gaps 4;
a  MSKAGVLTCTLLFLPTL-----PLDGGQADAPAE---RWQDSSDSHHFLD 51
      : : : : : : : : : : : : : : : : : : : : : : : : : :
b  1  MWQGVGVFLVLTCTTSTTADSKGNWTFREFAKAPQVSGSGQGVSDQI--- 56
      : : : : : : : : : : : : : : : : : : : : : : : : : :
y  52  YKQKCHGGSSKMGKDHASCC 73
      : : : : : : : : : : : : : : : : : : : : : : : : : :
b  57  RHRCGNGFGATCK---RNC 74
      : : : : : : : : : : : : : : : : : : : : : : : : : :

```

[illegible]



```

MOLECULE TYPE: peptide
HYPOTHECAL: NO
SEQUENCE NO: 24
ORIGINAL SOURCE:
ORGANISM: Conus striatus
US-08-417-800-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLVTCVLFFPLALDGDQDPAPRPMOD---DISSEHFLPKQKNCNGCSK 65
DB 5 WMFTVFLVLATTV---SFFSDRASDGRDDEAKDSIMHE-SDRKEICNPAQPKY 60
QY 66 CRDHARCCR 75
DB 61 -----SCOR 64

RESULT 7
US-08-477-383-37
Sequence 37, Application US/08477383
GENERAL INFORMATION:
PATENT NO. 5589340
APPLICANT: Cruz, Lourdes J.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hallvard, David R.
APPLICANT: Macintosh, J. Michael
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS: Baetjer, Howard & Civiiletti
ADDRESS: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,383
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 29-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673
TELEPHONE: 202-962-8300
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
MOLECULE TYPE: peptide
TOPOLOGY: linear
STRANDEDNESS:
ORGANISM: Conus striatus
US-08-477-383-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLVTCVLFFPLALDGDQDPAPRPMOD---DISSEHFLPKQKNCNGCSK 65
DB 5 WMFTVFLVLATTV---SFFSDRASDGRDDEAKDSIMHE-SDRKEICNPAQPKY 60
QY 66 CRDHARCCR 75
DB 61 -----SCOR 64

RESULT 8
US-08-477-383-39
Sequence 39, Application US/08477383
GENERAL INFORMATION:
PATENT NO. 5589340
APPLICANT: Cruz, Lourdes J.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hallvard, David R.
APPLICANT: Macintosh, J. Michael
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS: Baetjer, Howard & Civiiletti
ADDRESS: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,383
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 29-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673
TELEPHONE: 202-962-8300
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
MOLECULE TYPE: peptide
TOPOLOGY: linear
STRANDEDNESS:
ORGANISM: Conus striatus
US-08-477-383-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLVTCVLFFPLALDGDQDPAPRPMOD---DISSEHFLPKQKNCNGCSK 65
DB 5 WMFTVFLVLATTV---SFFSDRASDGRDDEAKDSIMHE-SDRKEICNPAQPKY 60
QY 66 CRDHARCCR 75
DB 61 -----SCOR 64

RESULT 9
US-08-477-383-37
Sequence 37, Application US/08477383
GENERAL INFORMATION:
PATENT NO. 5589340
APPLICANT: Cruz, Lourdes J.
APPLICANT: Cruz, Lourdes J.
APPLICANT: Hallvard, David R.
APPLICANT: Macintosh, J. Michael
TITLE OF INVENTION: Conotoxin Peptides
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS: Baetjer, Howard & Civiiletti
ADDRESS: 1201 New York Avenue, N.W., Suite 1000
CITY: Washington
STATE: DC
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,383
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/137,800
FILING DATE: 29-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,848
FILING DATE: 29-JUN-1993
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 24260-107673
TELEPHONE: 202-962-8300
TELEFAX: 202-962-8300
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 64 amino acids
MOLECULE TYPE: peptide
TOPOLOGY: linear
STRANDEDNESS:
ORGANISM: Conus striatus
US-08-477-383-37

```



QY 66 CRDARCGR 75  
Db 61 -----SCR 64

RESULT 9  
US-08-487-174-37  
; Sequence 39, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameruino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 28-JUN-1993  
; PRIORITY DATE: 28-JUN-1993  
; REGISTRATION NUMBER: 28,957  
; NAME: Ihnen, Jeffrey L.  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus striatus  
US-08-487-174-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;  
Best Local Similarity 31.4%; Pred. No. 0.32;  
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLFFLTALPLDGPQADRAERMQD---DISSDHEPLFDQNCNCGGCSK 65  
Db 5 MNFTVLLVLLVLTW---SFTSDASGRDDEKDEKSDME-SDKNETCNPCGPKY 60

QY 66 CRDARCGR 75  
Db 61 -----SCR 64

RESULT 10  
US-08-487-174-37  
; Sequence 39, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameruino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 28-JUN-1993  
; PRIORITY DATE: 28-JUN-1993  
; REGISTRATION NUMBER: 28,957  
; NAME: Ihnen, Jeffrey L.  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus striatus  
US-08-487-174-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;  
Best Local Similarity 31.4%; Pred. No. 0.32;  
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLFFLTALPLDGPQADRAERMQD---DISSDHEPLFDQNCNCGGCSK 65  
Db 5 MNFTVLLVLLVLTW---SFTSDASGRDDEKDEKSDME-SDKNETCNPCGPKY 60

QY 66 CRDARCGR 75  
Db 61 -----SCR 64

RESULT 11  
US-08-487-174-37  
; Sequence 39, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameruino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 28-JUN-1993  
; PRIORITY DATE: 28-JUN-1993  
; REGISTRATION NUMBER: 28,957  
; NAME: Ihnen, Jeffrey L.  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus striatus  
US-08-487-174-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;  
Best Local Similarity 31.4%; Pred. No. 0.32;  
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLFFLTALPLDGPQADRAERMQD---DISSDHEPLFDQNCNCGGCSK 65  
Db 5 MNFTVLLVLLVLTW---SFTSDASGRDDEKDEKSDME-SDKNETCNPCGPKY 60

QY 66 CRDARCGR 75  
Db 61 -----SCR 64

US-08-487-174-39  
; Sequence 39, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameruino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIORITY DATE: 19-OCT-1993  
; REGISTRATION NUMBER: 28,957  
; NAME: Ihnen, Jeffrey L.  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 39:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 64 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus striatus  
US-08-487-174-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;  
Best Local Similarity 31.4%; Pred. No. 0.32;  
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLFFLTALPLDGPQADRAERMQD---DISSDHEPLFDQNCNCGGCSK 65  
Db 5 MNFTVLLVLLVLTW---SFTSDASGRDDEKDEKSDME-SDKNETCNPCGPKY 60

QY 66 CRDARCGR 75  
Db 61 -----SCR 64

RESULT 11  
US-08-487-174-37  
; Sequence 39, Application US/08487174  
; Patent No. 5595972  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: Cruz, Lourdes J.  
; APPLICANT: Hillyard, David R.  
; APPLICANT: Macintosh, J. Michael  
; APPLICANT: Santos, Ameruino S.  
; TITLE OF INVENTION: Conotoxin Peptides  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Venable, Baetjer, Howard & Civiletti  
; STREET: 1201 New York Avenue, N.W., Suite 1000  
; CITY: Washington  
; STATE: DC  
; COUNTRY: U.S.A.  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA: US/08/487.174  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/137,800  
; FILING DATE: 19-OCT-1993  
; PRIORITY DATE: 19-OCT-1993  
; REGISTRATION NUMBER: 28,957  
; NAME: Ihnen, Jeffrey L.  
; REFERENCE/DOCKET NUMBER: 24260-107673  
; TELEPHONE: 202-962-8300  
; INFORMATION FOR SEQ ID NO: 39:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 64 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Conus striatus  
US-08-487-174-39

Query Match 17.3%; Score 72.5; DB 1; Length 64;  
Best Local Similarity 31.4%; Pred. No. 0.32;  
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLLTVCLLFFLTALPLDGPQADRAERMQD---DISSDHEPLFDQNCNCGGCSK 65  
Db 5 MNFTVLLVLLVLTW---SFTSDASGRDDEKDEKSDME-SDKNETCNPCGPKY 60

QY 66 CRDARCGR 75  
Db 61 -----SCR 64

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/ APPLICANT: Macintosh, J. Michael
/ APPLICANT: Santos, Aneurino S.
/ TITLE OF INVENTION: Conotoxin Peptides
/ NUMBER OF SEQUENCES: 59
/ COMPUTER READABLE FORM:
/ STREET: 1201 New York Avenue, N.W., Suite 1000
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: U.S.A.
/ ZIP: 20005
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA: US 08/480,750
/ FILING DATE: 07-JUN-1995
/ CLASSIFICATION: 530
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/137,800
/ FILING DATE: 19-OCT-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/084,848
/ FILING DATE: 29-JUN-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Ihnen, Jeffrey L.
/ REGISTRATION NUMBER: 28,957
/ REFERENCE/DOCKET NUMBER: 24260-107673
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-962-8300
/ TELEFAX: 202-962-8300
/ INVENTOR CHARACTERISTICS:
/ LENGTH: 64 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: linear
/ MOLECULE TYPE: peptide
/ HYPOTHEICAL: NO
/ ORIGINAL SOURCE:
/ ORGANISM: Conus striatus
/ US-08-480-750-37

Query Match 17.3%; Score 72.5; DB 1; Length 64;
Best Local Similarity 31.4%; Pred. No. 0.32;
Matches 22; Conservative 11; Mismatches 24; Indels 13; Gaps 4;

QY 9 VLTVCILLPLPLALDQPADPARMD--DISSDHPLFKQKNCNGGCSKM 65
DB 5 MMTFVLLVLIATVTV--SFSDRASDGDDEANDERSDME-SURKEICCNACPGPKY 60

QY 66 CDHARCCOR 75
DB 61 -----SCOR 64

RESULT 13
523423-30 523423
/ PAGES: 30
/ APPLICANT: FRANCHINI, GENOVEFFA;KONG-STRAAL, FLOSSIE;
/ GALLO, ROBERT
/ TITLE OF INVENTION: CHARACTERIZATION OF REPLICATION COMPETENT
/ HUMAN CONOTOXIN PEPTIDES 2 PROVINAL CLONE HIV-2 SHU/181
/ NUMBER OF SEQUENCES: 4
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/331,212
/ FILING DATE: 03-31-1989
/ SEQ ID NO: 1
/ LENGTH: 3025
523423-33

Query Match 17.3%; Score 72.5; DB 6; Length 3025;
Best Local Similarity 23.7%; Pred. No. 0.17;
Matches 22; Conservative 14; Mismatches 24; Indels 33; Gaps 4;

QY 6 KLVVTVLLPLPLALDQ--
DB 1821 KSLITLACILLATISLDMETPLKAPKSLGSIYNSRHSSEQ--DVATQIANQEE 1877

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QY 47 -----HELPDEKQKNGCSSWCRDHARC 73
DB 1878 ILSQYPL-----ETCNKTECKGCHQC 1905

RESULT 14
US-09-488-799-31
; Sequence 31, Application US/09488799
; FILE REFERENCE: Alpha Conotoxin Peptides
; GENERAL INFORMATION:
; APPLICANT: Olivera, Balcomero M.
; APPLICANT: Layer, Richard T.
; APPLICANT: Watkins, Maren
; APPLICANT: Conner, Robert R.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Schoenfeld, Robert
; APPLICANT: Jones, Robert M.
; APPLICANT: Smith, Robert
; FILE REFERENCE: Alpha Conotoxin Peptides
; CURRENT APPLICATION NUMBER: US/09/488,799
; CURRENT FILING DATE: 2000-01-21
; EARLIER APPLICATION NUMBER: 69/116,891
; EARLIER FILING DATE: 1999-01-22
; EARLIER APPLICATION NUMBER: 60/116,892
; EARLIER FILING DATE: 1999-01-22
; NUMBER OF SEQ ID NOS: 101
; SEQ ID NO 1: Patentin Ver. 2.0
; SEQ ID NO 31
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Conus striatus
US-09-488-799-31

Query Match 17.04; Score 71.5; DB 3; Length 59;
Best Local Similarity 31.94; Pred. No. 0.38; 24; Indels 13; Gaps 4;
Matches 22; Conservative 10; Mismatches 10;

QY 10 LTVCLLFFLTALPCTDPAAPARMQD--DISSDEHPLFKQKNGCSSKMC 66
DB 1 MFTVLVLVLTATV--SFFSDRAGSDRDAKDSINHE-SDEKEICNACGAPAT- 55

QY 67 RDHARCOR 75
DB 56 -----SCOR 59

US-09-061-026-22
; APPLICATION NUMBER: US 60/068,737
; FILING DATE: 24-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Innes, Jeffrey L. 957
; REFERENCE/DOCKET NUMBER: 2314-133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-783-6040
; FAX: 202-783-6040
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 63 amino acids
; TYPE: amino acid
; COMPOSITION: 19 amino acids
; MOLECULE TYPE: protein
US-09-061-026-22

Query Match 17.04; Score 71.5; DB 2; Length 63;
Best Local Similarity 30.84; Pred. No. 0.41;
Matches 24; Conservative 17; Mismatches 6; Gaps 4;
QY 4 MSKLDVI-LTVCLLFFLTALPCTDPAAPARMQD--DISSDEHPLFKQKNGCSSKMC 62
DB 1 MGNLTILVAVALLSQWVQGDQADRNA-----VPRDNP-----GGAS 44

QY 63 SK-----WC 66
DB 45 GKFWNVLPSSCCWEPWC 62

Search completed: November 17, 2003, 16:19:24
Job time : 23.1053 secs

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RESULT 15
US-09-061-026-22
; Sequence 22, Application US/09061026
; FILE REFERENCE: Alpha Conotoxin Peptides
; GENERAL INFORMATION:
; APPLICANT: Jacobsen, Richard
; APPLICANT: Oliviera, Balcomero M.
; APPLICANT: Jones, Robert
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figs. Ernst & Kurz, P.C.
; STREET: 755 Thirteenth Street N.W., Suite 701-E
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER: IBM PC compatible
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/09/061,026
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

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Query Match 100.0%; Score 420; DB 11; Length 75;  
 Best Local Similarity 100.0%; Pred. No. 1,28-41;  
 Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

# RESULT 2

US-09-910-009a-300

; Sequence 300, Application US/09910009A

; Publication No. US20030050234A1

; GENERAL INFORMATION: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olvera, Baldomero M.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Watkins, Maren

; APPLICANT: Cruz, Lourdes J.

; APPLICANT: Shen, Ki-Joon

; APPLICANT: Jones, Robert M.

; APPLICANT: Cartier, G. Edward

; APPLICANT: Chen, Greg S.

; APPLICANT: Wagstaff, John D.

; TITLE OF INVENTION: Ma-Conopeptides

; CURRENT APPLICATION NUMBER: US/09/910, 009A

; PRIOR FILING DATE: 2001-07-23

; PRIOR APPLICATION NUMBER: US 60/219, 619

; PRIOR FILING DATE: 2000-07-21

; PRIOR APPLICATION NUMBER: US 60/245, 157

; PRIOR FILING DATE: 2000-11-03

; PRIOR APPLICATION NUMBER: US 60/264, 319

; PRIOR FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/277, 270

; NUMBER OF SEQ ID NOS: 520

; SEQ ID NO 300

; LENGTH: 76

; TYPE: PRT

; ORGANISM: *Conus stercusmuscarum*

US-09-910-009a-300

Query Match 88.6%; Score 372; DB 11; Length 76;  
 Best Local Similarity 88.0%; Pred. No. 4,88-36;  
 Matches 60; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

QY 3 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

APPLICANT: Garrett, James E.  
 APPLICANT: McIntosh, J. Michael  
 APPLICANT: Cruz, Lourdes J.  
 APPLICANT: Shen, Ki-Joon  
 APPLICANT: Jacobsen, Richard  
 APPLICANT: Jones, Robert M.  
 APPLICANT: Cartier, G. Edward  
 APPLICANT: Chen, Greg S.  
 APPLICANT: Wagstaff, John D.

QY 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

# RESULT 3

US-09-910-009a-375

; Sequence 375, Application US/09910009A

; Publication No. US20030050234A1

; GENERAL INFORMATION: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olvera, Baldomero M.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Watkins, Maren

; APPLICANT: Cruz, Lourdes J.

; APPLICANT: Shen, Ki-Joon

; APPLICANT: Jones, Robert M.

; APPLICANT: Cartier, G. Edward

; APPLICANT: Chen, Greg S.

; APPLICANT: Wagstaff, John D.

; TITLE OF INVENTION: Ma-Conopeptides

; CURRENT APPLICATION NUMBER: US/09/910, 009A

; PRIOR FILING DATE: 2001-07-23

; PRIOR APPLICATION NUMBER: US 60/219, 619

; PRIOR FILING DATE: 2000-07-21

; PRIOR APPLICATION NUMBER: US 60/245, 157

; PRIOR FILING DATE: 2000-11-03

; PRIOR APPLICATION NUMBER: US 60/264, 319

; PRIOR FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/277, 270

; NUMBER OF SEQ ID NOS: 520

; SEQ ID NO 300

; LENGTH: 76

; TYPE: PRT

; ORGANISM: *Conus stercusmuscarum*

US-09-910-009a-375

Query Match 88.6%; Score 372; DB 11; Length 76;  
 Best Local Similarity 88.0%; Pred. No. 4,88-36;  
 Matches 60; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

QY 3 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

APPLICANT: Garrett, James E.  
 APPLICANT: McIntosh, J. Michael  
 APPLICANT: Cruz, Lourdes J.  
 APPLICANT: Shen, Ki-Joon  
 APPLICANT: Jacobsen, Richard  
 APPLICANT: Jones, Robert M.  
 APPLICANT: Cartier, G. Edward  
 APPLICANT: Chen, Greg S.  
 APPLICANT: Wagstaff, John D.

QY 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

# RESULT 4

US-09-910-009a-41

; Sequence 41, Application US/09910009A

; Publication No. US20030050234A1

; GENERAL INFORMATION: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olvera, Baldomero M.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Watkins, Maren

; APPLICANT: Cruz, Lourdes J.

; APPLICANT: Shen, Ki-Joon

; APPLICANT: Jones, Robert M.

; APPLICANT: Cartier, G. Edward

; APPLICANT: Chen, Greg S.

; APPLICANT: Wagstaff, John D.

; TITLE OF INVENTION: Ma-Conopeptides

; CURRENT APPLICATION NUMBER: US/09/910, 009A

; PRIOR FILING DATE: 2001-07-23

; PRIOR APPLICATION NUMBER: US 60/219, 619

; PRIOR FILING DATE: 2000-07-21

; PRIOR APPLICATION NUMBER: US 60/245, 157

; PRIOR FILING DATE: 2000-11-03

; PRIOR APPLICATION NUMBER: US 60/264, 319

; PRIOR FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/277, 270

; NUMBER OF SEQ ID NOS: 520

; SEQ ID NO 300

; LENGTH: 76

; TYPE: PRT

; ORGANISM: *Conus stercusmuscarum*

US-09-910-009a-41

Query Match 79.8%; Score 335; DB 11; Length 74;  
 Best Local Similarity 79.7%; Pred. No. 9,78-32;  
 Matches 59; Conservative 6; Mismatches 7; Indels 2; Gaps 1;

QY 3 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

APPLICANT: Garrett, James E.  
 APPLICANT: McIntosh, J. Michael  
 APPLICANT: Cruz, Lourdes J.  
 APPLICANT: Shen, Ki-Joon  
 APPLICANT: Jacobsen, Richard  
 APPLICANT: Jones, Robert M.  
 APPLICANT: Cartier, G. Edward  
 APPLICANT: Chen, Greg S.  
 APPLICANT: Wagstaff, John D.

QY 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

# RESULT 5

US-09-910-009a-375

; Sequence 375, Application US/09910009A

; Publication No. US20030050234A1

; GENERAL INFORMATION: University of Utah Research Foundation

; APPLICANT: Cognetix, Inc.

; APPLICANT: Olvera, Baldomero M.

; APPLICANT: McIntosh, J. Michael

; APPLICANT: Watkins, Maren

; APPLICANT: Cruz, Lourdes J.

; APPLICANT: Shen, Ki-Joon

; APPLICANT: Jones, Robert M.

; APPLICANT: Cartier, G. Edward

; APPLICANT: Chen, Greg S.

; APPLICANT: Wagstaff, John D.

; TITLE OF INVENTION: Ma-Conopeptides

; CURRENT APPLICATION NUMBER: US/09/910, 009A

; PRIOR FILING DATE: 2001-07-23

; PRIOR APPLICATION NUMBER: US 60/219, 619

; PRIOR FILING DATE: 2000-07-21

; PRIOR APPLICATION NUMBER: US 60/245, 157

; PRIOR FILING DATE: 2000-11-03

; PRIOR APPLICATION NUMBER: US 60/264, 319

; PRIOR FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/277, 270

; NUMBER OF SEQ ID NOS: 520

; SEQ ID NO 300

; LENGTH: 76

; TYPE: PRT

; ORGANISM: *Conus stercusmuscarum*

US-09-910-009a-375

Query Match 88.6%; Score 372; DB 11; Length 76;  
 Best Local Similarity 88.0%; Pred. No. 4,88-36;  
 Matches 60; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

QY 3 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

Db 1 GMSKGLVLTGVLFFLTALPLDQDPAARWQDSSSDEHPLFDKRCNCNGG 60

QY 61 CSSKWCNRHARCCG 75

Db 61 CSSKWCNRHARCCG 75

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; SOFTWARE: Patentin version 3.0
; SEQ ID NO 41
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009a-41

Query Match          76.2%; Score 320; DB 11; Length 80;
Best Local Similarity 76.3%; Pred. No. 2.1e-28;
Matches 67; Conservative 77; Mismatches 5; Indels 8; Gaps 3;

QY 3 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKG--QNQC-- 58
DB 1 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKGAVRCCNG 60

QY 59 --GCSGSKWCRDHRCOR 75
DB 61 NKRKGC-SKWCNRDHRCOR 79

RESULT 5
US-09-910-009a-378
; Publication No. US09910009A
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oshmetrix, Inc.
; APPLICANT: Baldomero M. McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Shon, Ki-Joon J.
; APPLICANT: Jacobson, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 38
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009a-38

Query Match          72.9%; Score 306; DB 11; Length 78;
Best Local Similarity 75.6%; Pred. No. 2.5e-28;
Matches 59; Conservative 68; Mismatches 5; Indels 6; Gaps 4;

QY 3 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKG--QNQC-- 59
DB 1 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKGAVRCCNG 60

QY 60 --GCSGSKWCRDHRCOR 75
DB 61 NKRKGC-SKWCNRDHRCOR 77

RESULT 7
US-09-910-009a-262
; Sequence 262, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oshmetrix, Inc.
; APPLICANT: Baldomero M. McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobson, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2000-07-21

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; Sequence 38, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oshmetrix, Inc.
; APPLICANT: Baldomero M. McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Shon, Ki-Joon J.
; APPLICANT: Jacobson, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 38
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009a-38

Query Match          72.9%; Score 306; DB 11; Length 78;
Best Local Similarity 75.6%; Pred. No. 2.5e-28;
Matches 59; Conservative 68; Mismatches 5; Indels 6; Gaps 4;

QY 3 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKG--QNQC-- 59
DB 1 MNSKGLVLTCLLFFALPLDQDPAQPAERWQDSSQHPFLDKGAVRCCNG 60

QY 60 --GCSGSKWCRDHRCOR 75
DB 61 NKRKGC-SKWCNRDHRCOR 77

RESULT 7
US-09-910-009a-262
; Sequence 262, Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oshmetrix, Inc.
; APPLICANT: Baldomero M. McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobson, Richard
; APPLICANT: Jones, Robert M.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Mu-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2000-07-21

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; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Ma-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIORITY FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 214
; LENGTH: 74
; ORGANISM: Conus tulipa
US-09-910-009a-234

Query Match
; Best Local Similarity 71.3%; Score 299.5; DB 11; Length 74;
; Matches 55; Conservative 9; Mismatches 7; Indels 3; Gaps 2;

QY 4 MMSKGLVLTVCLLPFLPLDQGPADPAERMMODISSDEHPIDFQK--QNCQNC--GC 61
Db 1 MMSKGLVLTVCLLPFLPLDQGPADPAERMMODISSDEHPIDFQKCTGKGG 60

QY 62 SSKWCQDHAACCR 75
Db 61 SSKWCQDHAACCR 73

RESULT 11
US-09-910-009a-35
; Sequence 35: Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobson, Richard
; APPLICANT: Wagstaff, John D.
; APPLICANT: Carter, Greg S.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 35
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Conus auriliacus
US-09-910-009a-285

Query Match
; Best Local Similarity 69.9%; Score 293.5; DB 11; Length 76;
; Matches 54; Conservative 9; Mismatches 10; Indels 3; Gaps 1;

QY 3 MMSKGLVLTVCLLPFLPLDQGPADPAERMMODISSDEHPIDFQKCC--MG 59
Db 1 MMSKGLVLTVCLLPFLPLDQGPADPAERMMODISSDEHPIDFQKCCCTGKGG 60

QY 60 SSKWCQDHAACCR 75
Db 61 SSKWCQDHAACCR 76

RESULT 12
US-09-910-009a-265
; Sequence 265: Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobson, Richard
; APPLICANT: Wagstaff, John D.
; APPLICANT: Carter, Greg S.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 265
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Conus auriliacus
US-09-910-009a-285

Query Match
; Best Local Similarity 71.1%; Score 293.5; DB 11; Length 76;
; Matches 54; Conservative 9; Mismatches 10; Indels 3; Gaps 1;

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Db 1 MMSKGLVLTVCLLPFLPLDQGPADPAERMMODISSDEHPIDFQKCCCTGKGG 60

QY 60 SSKWCQDHAACCR 75
Db 61 SSKWCQDHAACCR 76

RESULT 13
US-09-910-009a-201
; Sequence 201: Application US/09910009A
; Publication No. US20030050234A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Oliviera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Garrett, James E.
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobson, Richard
; APPLICANT: Wagstaff, John D.
; APPLICANT: Carter, Greg S.
; APPLICANT: Shon, Greg S.
; APPLICANT: Wagstaff, John D.
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 201
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Conus bullatus
US-09-910-009a-35

Query Match
; Best Local Similarity 71.3%; Score 299.5; DB 11; Length 77;

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; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Shon, Ki-Joon
; APPLICANT: Jacobsen, Richard
; APPLICANT: Cartier, Robert M.
; APPLICANT: Cartier, Robert M.
; APPLICANT: Shen, Greg S.
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Ma-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2001-07-21
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2001-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2001-11-03
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 520
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Conus stercusmarum
US-09-910-009a-201
Query Match 69.6%; Score 292.5; DB 11; Length 75;
Best Local Similarity 72.0%; Pred. No. 9.1e-27; Indels 3; Gaps 1;
Matches 54; Conservative 9; Mismatches 9;
QY 4 MSKLGVLTVCLLPFTALPDGQDPADPAERWDDISSDHFLEFKRNC--NSG 60
DB 1 MSKLGVLTVCLLPFTALPDGQDPADPAERWDDISSDHFLEFKRNCCKG 60
QY 61 CSKWCNDRNCCGR 75
DB 61 CSKWCNDRNCCGR 75
RESULT 14
US-09-910-009a-32
Sequence 32, Application US/09910009A
General Information:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Olivera, Balomero M.
; APPLICANT: McIntosh, Michael
; APPLICANT: Cartier, James E.
; APPLICANT: Watkins, Maren
; APPLICANT: Cruz, Lourdes J.
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.
; APPLICANT: Shen, Greg S.
; APPLICANT: Wagstaff, John D.
; TITLE OF INVENTION: Ma-Conopeptides
; FILE REFERENCE: 2314-242
; CURRENT APPLICATION NUMBER: US/09/910,009A
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/219,619
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/245,157
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/264,319
; PRIOR FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: US 60/277,270
; NUMBER OF SEQ ID NOS: 520
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 147
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Conus magus
US-09-910-009a-147
Query Match 66.1%; Score 277.5; DB 11; Length 74;
Best Local Similarity 75.6%; Pred. No. 5e-25; Indels 3; Gaps 2;
Matches 53; Conservative 9; Mismatches 9;
QY 3 MSKLGVLTVCLLPFTALPDGQDPADPAERWDDISSDHFLEFKRNC--QNC 61
DB 1 MSKLGVLTVCLLPFTALPDGQDPADPAERWDDISSDHFLEFKRNCCKG 60
QY 62 SSKWCNDRNCCGR 73
DB 61 CPVYFDNFTCCG 74
Search completed: November 17, 2003, 16:26:50
Job time : 36.103 secs

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